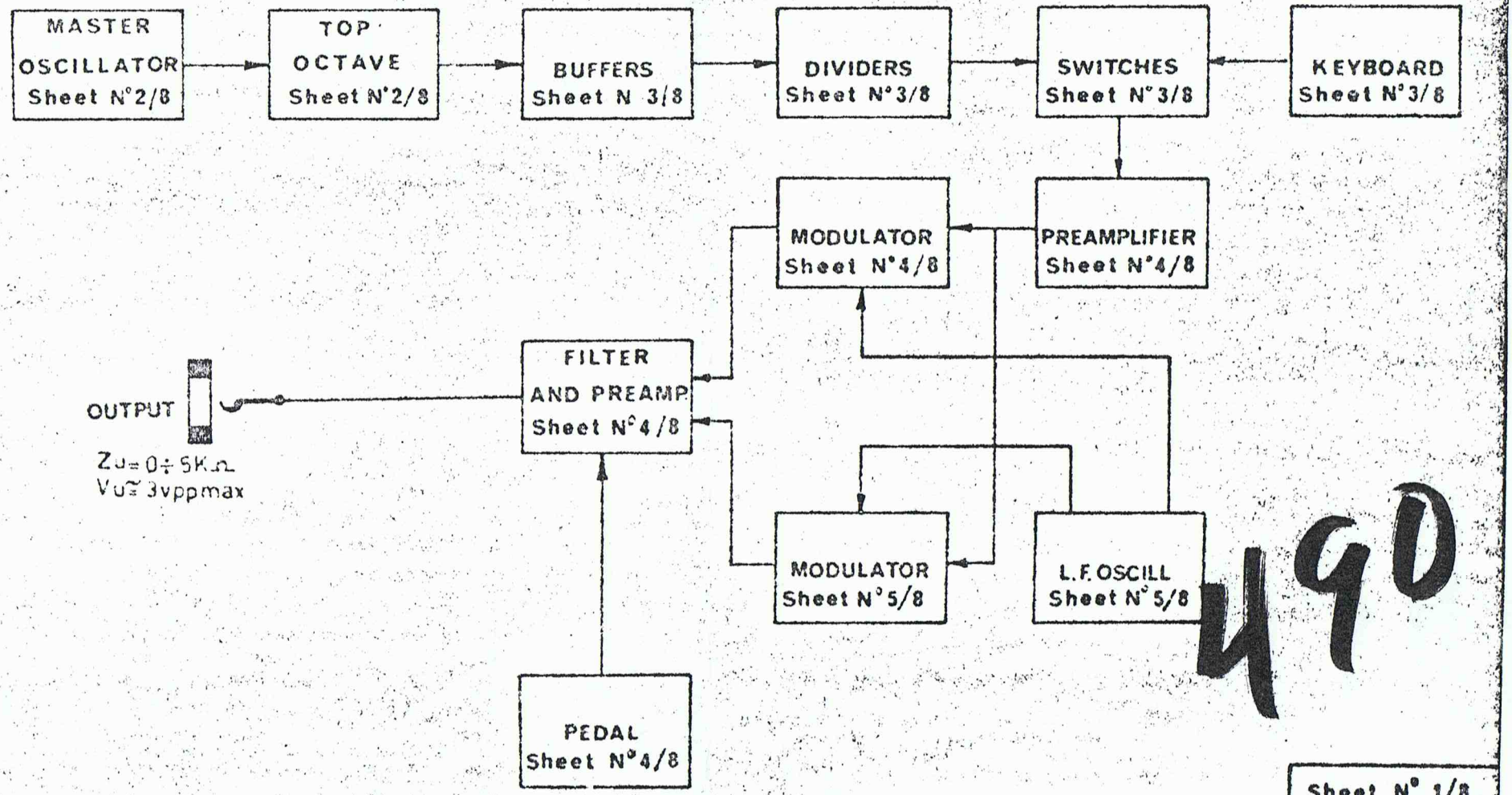
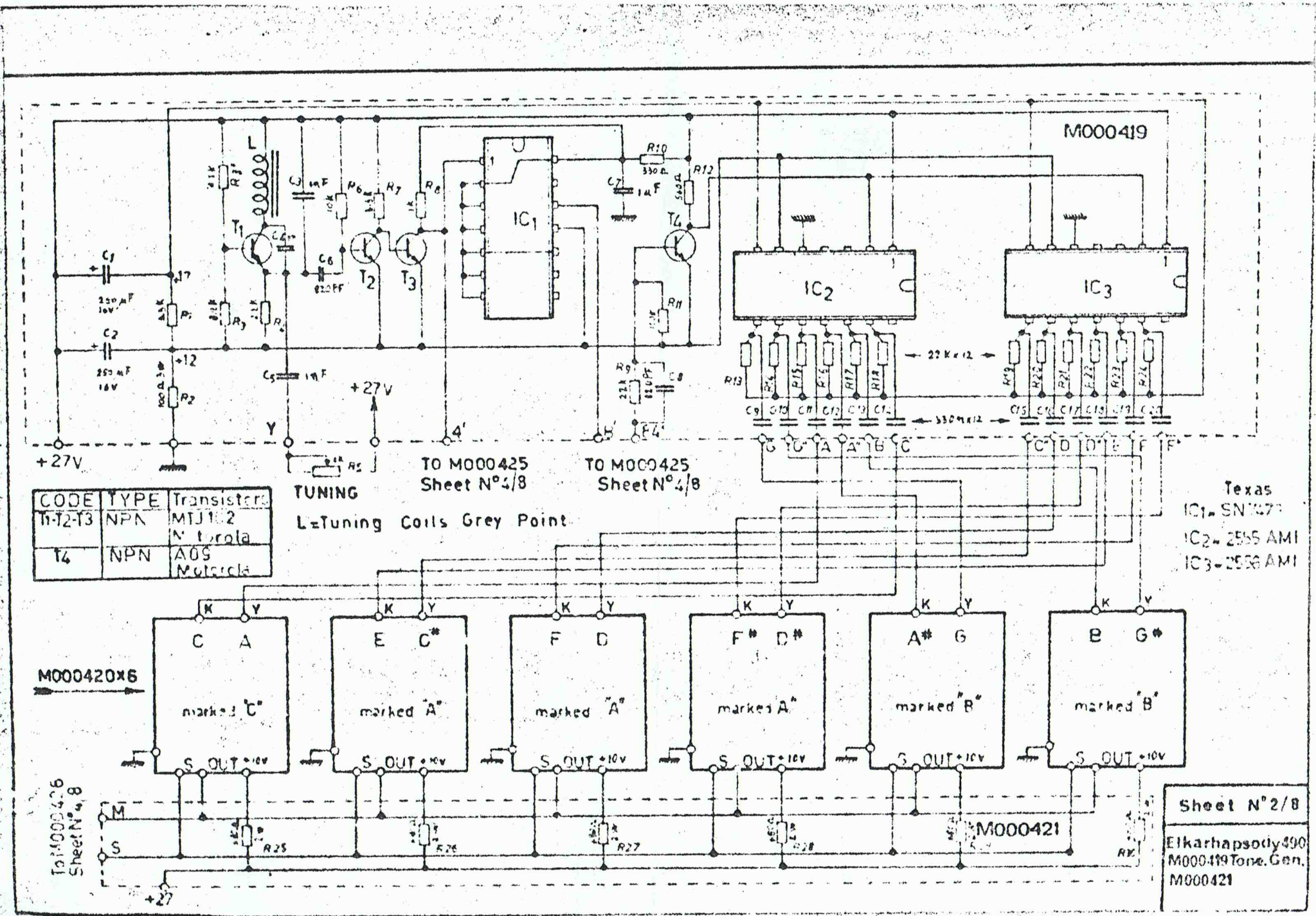
ELKA

ElkaRhapsody 490

schematic diagrams


MASTER OSCILLATOR Sheet N°2/8
TOP OCTAVE Sheet N°2/8
BUFFERS Sheet N 3/8
DIVIDERS Sheet N°3/8
SWITCHES Sheet N°3/8
KEYBOARD Sheet N°3/8
MODULATOR Sheet N°4/8
PREAMPLIFIER Sheet N°4/8
FILTER AND PREAMP Sheet N°4/8
OUTPUT
Zu= 0÷ 5KΩ
Vu≅ 3vppmax
MODULATOR Sheet N°5/8
L.F. OSCILL Sheet N°5/8
PEDAL Sheet N°4/8
490
Sheet N° 1/8
Drawn by
Designed by
Schematic Diagram for Elkarhapsody 490
ELKA
Date 16-7-74
Checked by



CODE	TYPE	Transistors
T1-T2-T3	NPN	MTJ1...2 N. Tyrola
T4	NPN	A05 Motorola

	C_{46}	C_{42}	C_{40}	C_{38}	C_{36}	C_{34}	C_{32}	C_{30}	C_{44}
A	-	39	18	82	33	15	68	33	33
B	-	27	12	56	22	10	47	22	27
C	33	22	12	56	22	10	47	22	27

C (nF)

IC_4 = SAJ 110 ITT

all diodes are FDH 0565 Fairchild
or BA 130 SGS
or D 407 Texas

M000424

+27

C₀ D₀ E₀ F₀ G₀ A₀ B₀ C₁ D₁ E₁ F₁ G₁ A₁ B₁ C₂ D₂ E₂ F₂ G₂ A₂ B₂ C₃ D₃ E₃ F₃ G₃ A₃ B₃ C₄

Code Type Pelham-Bral
T_5 to T_{15} NPN F33865 Fairchild

K_1 K_2 K_3 Y_1 Y_2 Y_3 Y_0 K_4 K_5 S Out

6K8 ÷ 7

IC_4

+10

T_5 T_6 T_7 T_8 T_9 T_{10} T_{11} T_{12} T_{13} T_{14} T_{15}

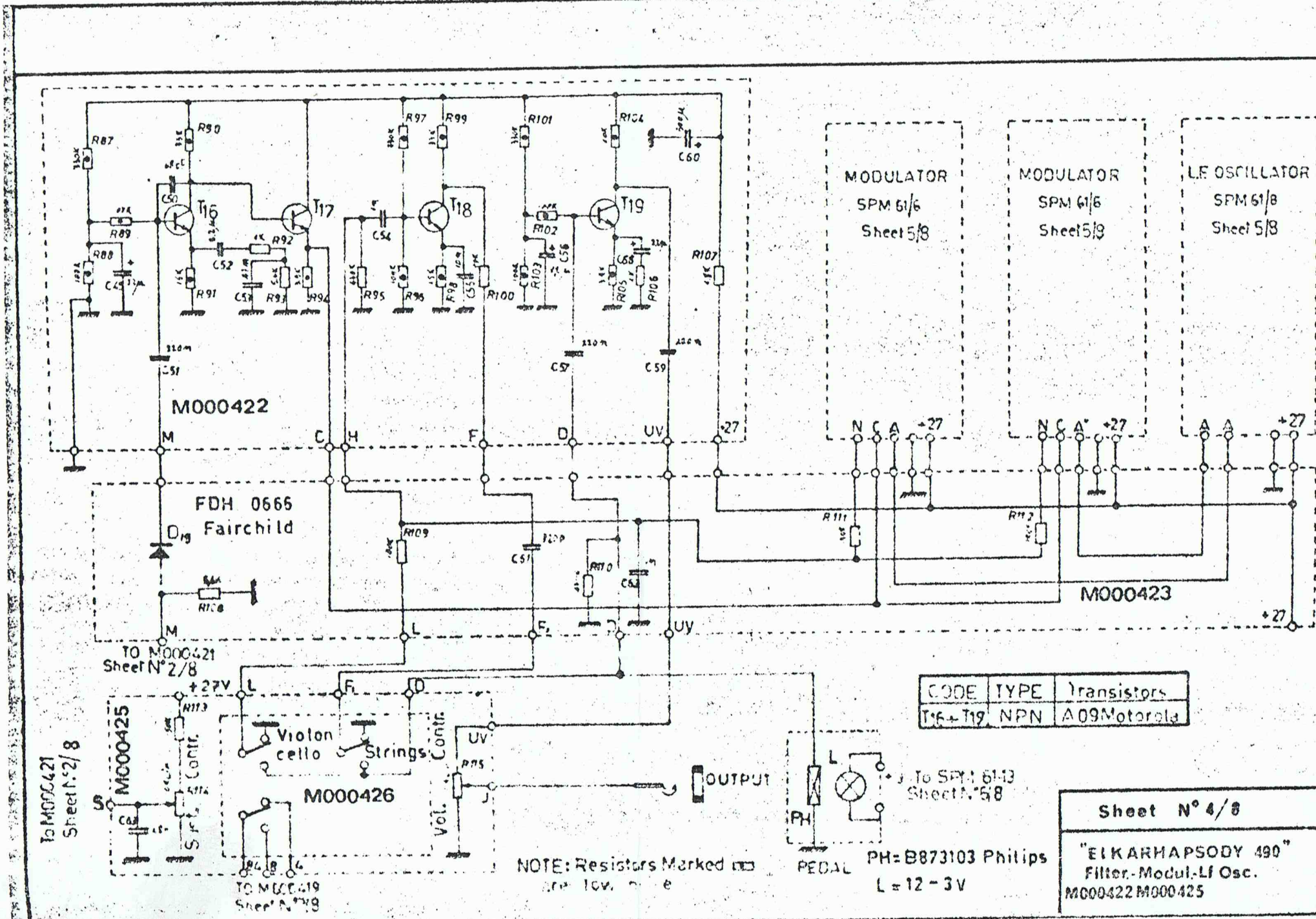
ONLY "C"

K Y

M000420 x 6

Sheet N°3/8

ELKARHAPSODY490
M000420
Divider Switch



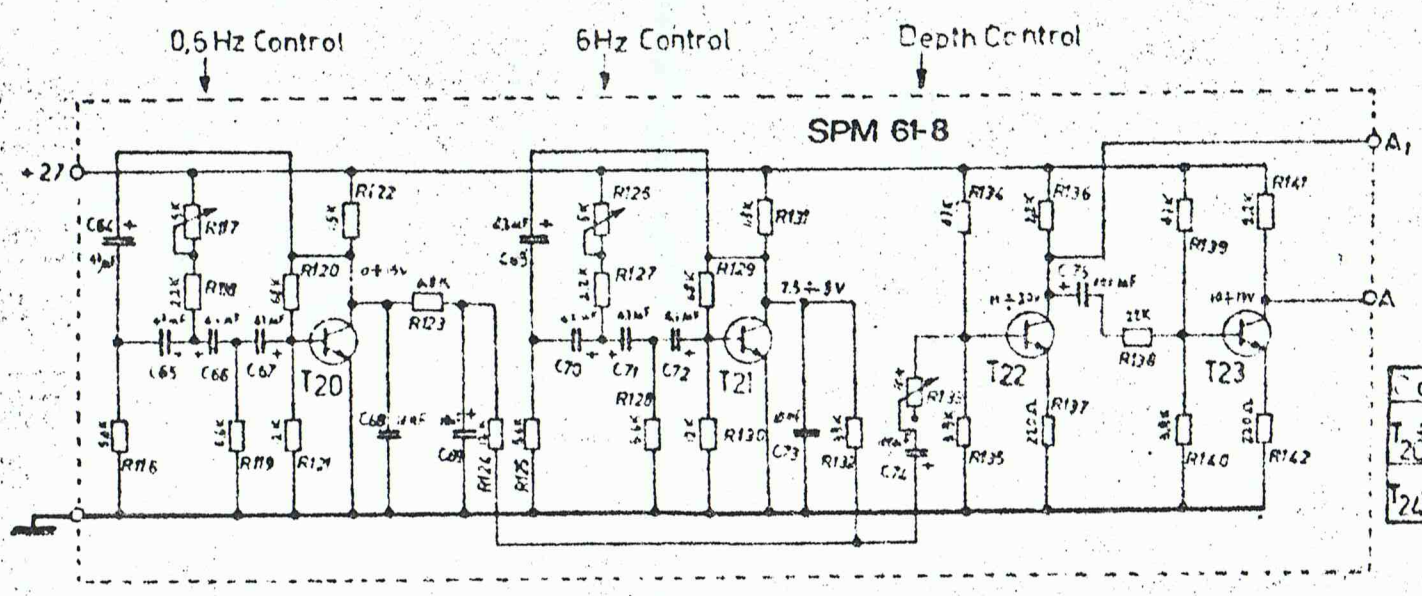
CODE	TYPE	Transistors
T16 ÷ T19	NPN	A09 Motorola

NOTE: Resistors Marked [ ] are low [illegible]

PH= B873103 Philips
L = 12 - 3V

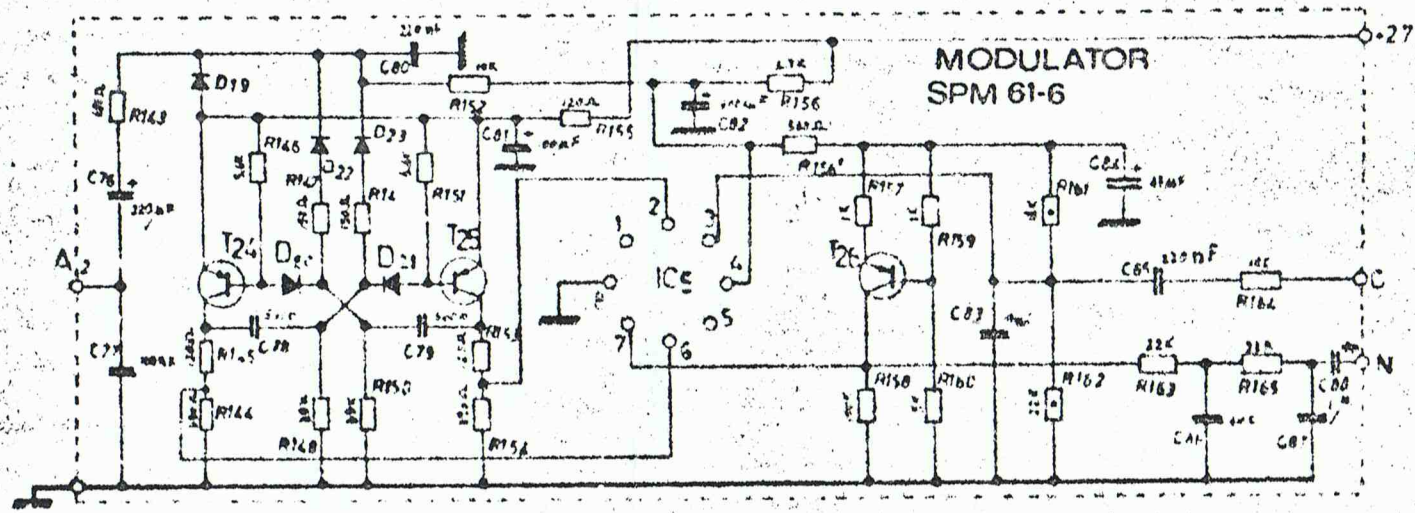
Sheet N° 4/8

"ELKARHAPSODY 490"
Filter.-Modul.-LF Osc.
M000422 M000425



Code	Type	Transistors
$T_{20} \div T_{23}$	NPN	A09 Motorola
$T_{24} \div T_{27}$	NPN	BC154 Fairchild

IC_5 = TCA 550 ITT

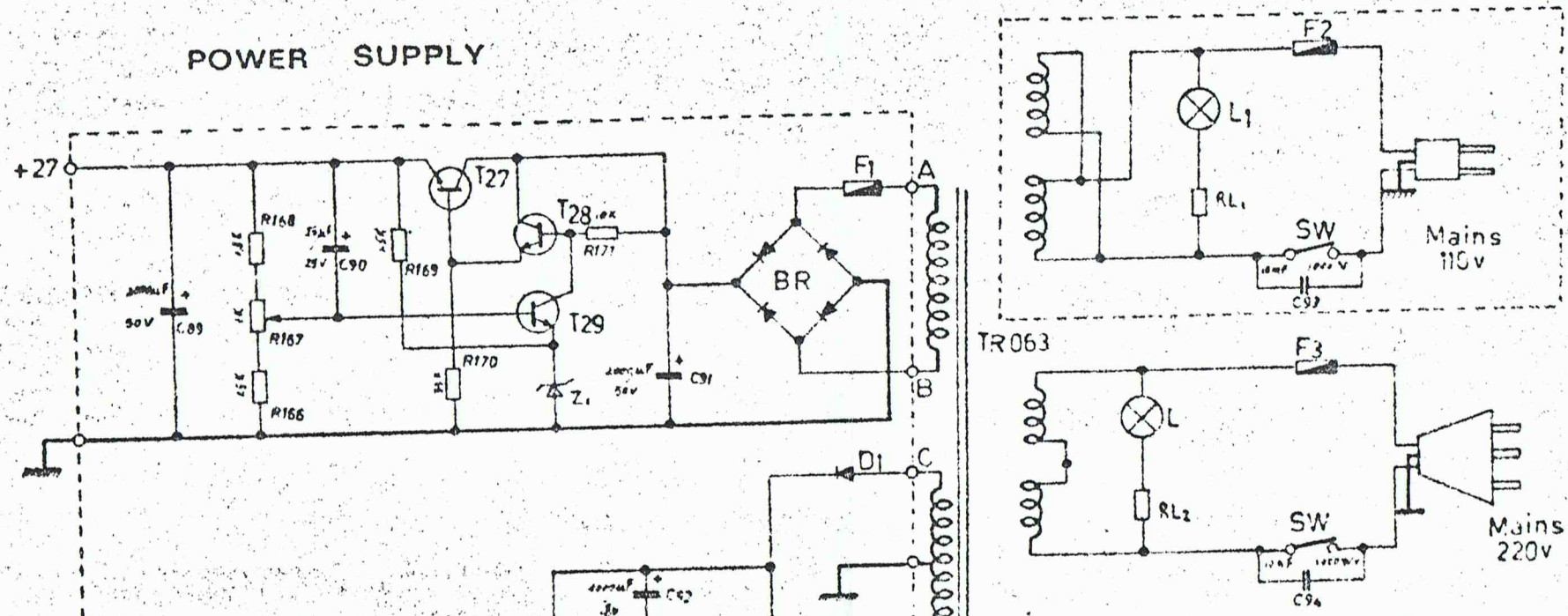


NOTE: Resistor marcked ▭ are low noise

Sheet N° 5 / 8

ELKARHAPSODY 490
SPM 61/8 Modul.
SPM 61/8 L.F. Oscill.

POWER SUPPLY



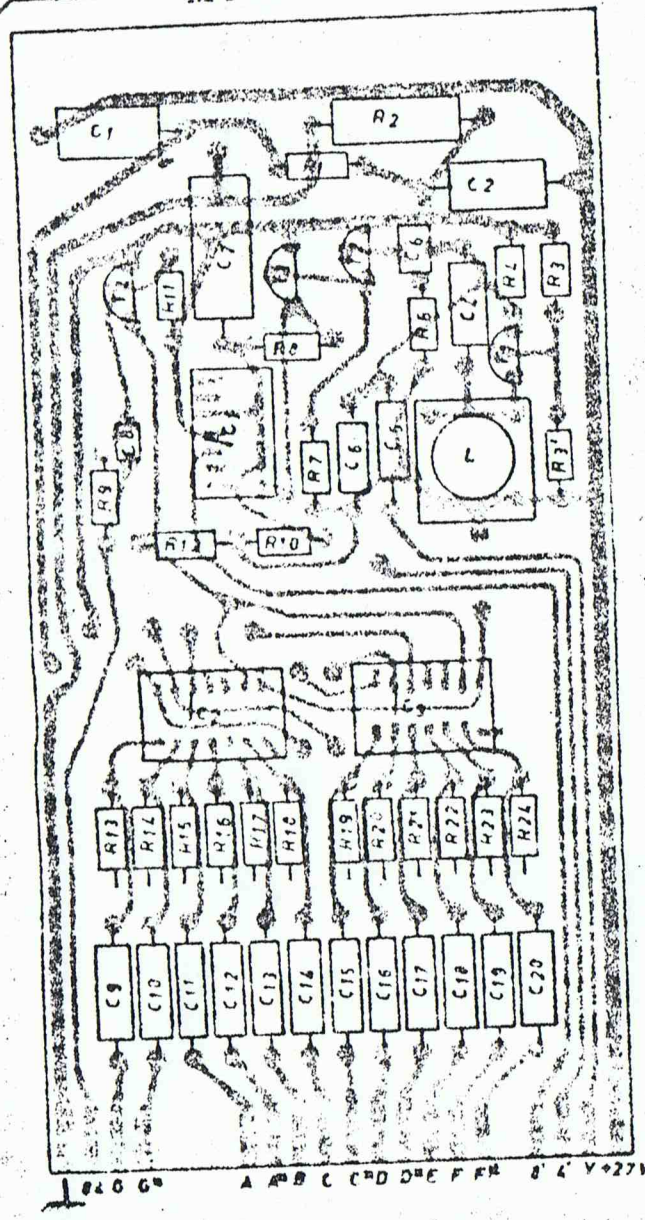
CODE	TYPE	Transistors
T_{28}-T_{29}	NPN	BC286SGS 2N4401-2N5156 Fairchild
T27	NPN	2N3055 Mistral Motorola

Z_1 = TZ 111 - PL117 - 1N4153 B
BR = W 02
D_1+D_2 = 1002 1N4003
F1 = 1.25A
F2 = 500mA
F3 = 315mA
TR = Transformer 063 ELKA (Ec/70401)
SW+L = Neon 220V/1108R/NB 2

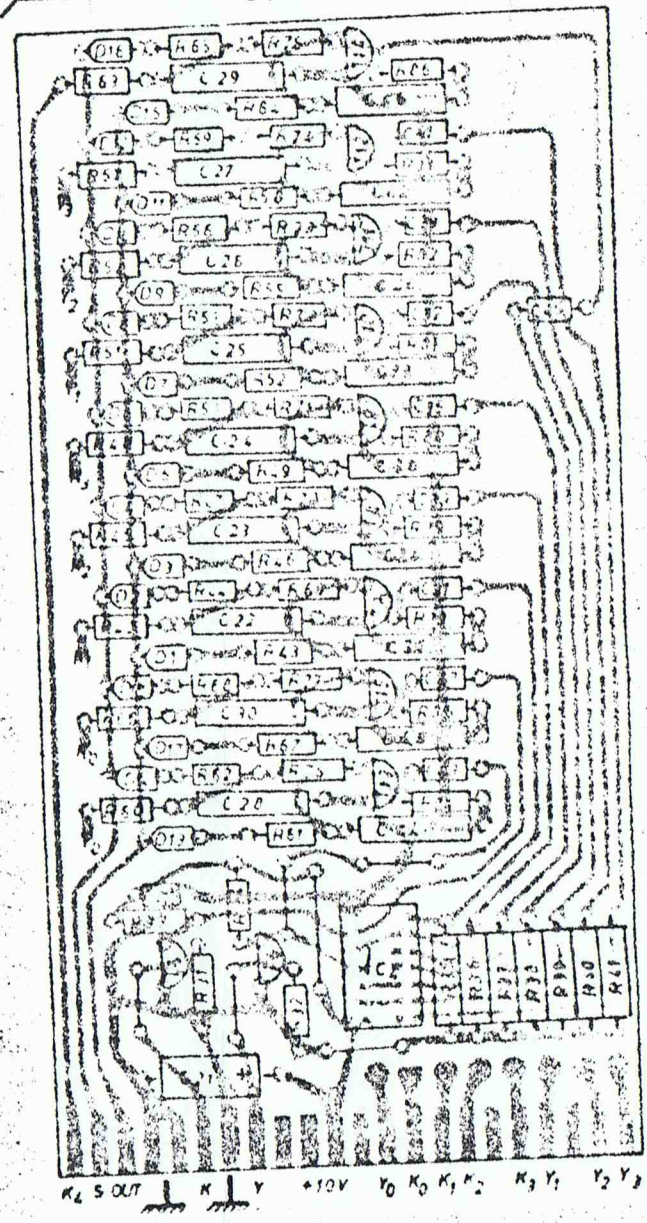
Sheet N° 6 / 8

ELKARHAPSODY 490
POWER SUPPLY
SPM 61|13

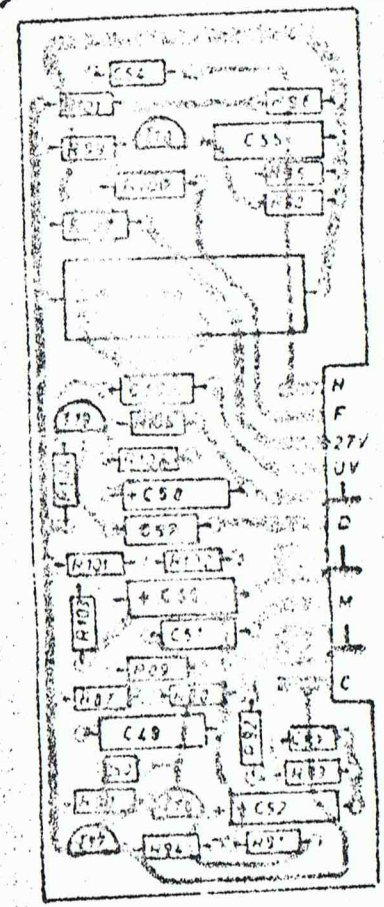
M000419



M000420

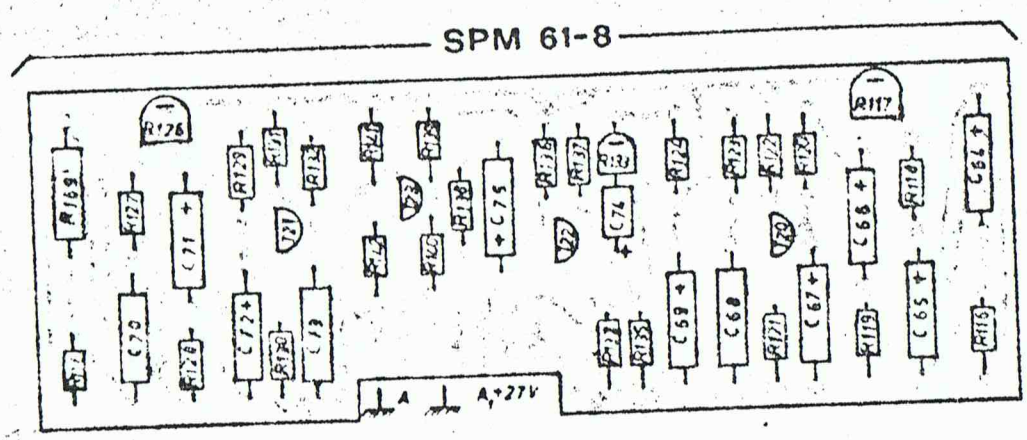


M000422

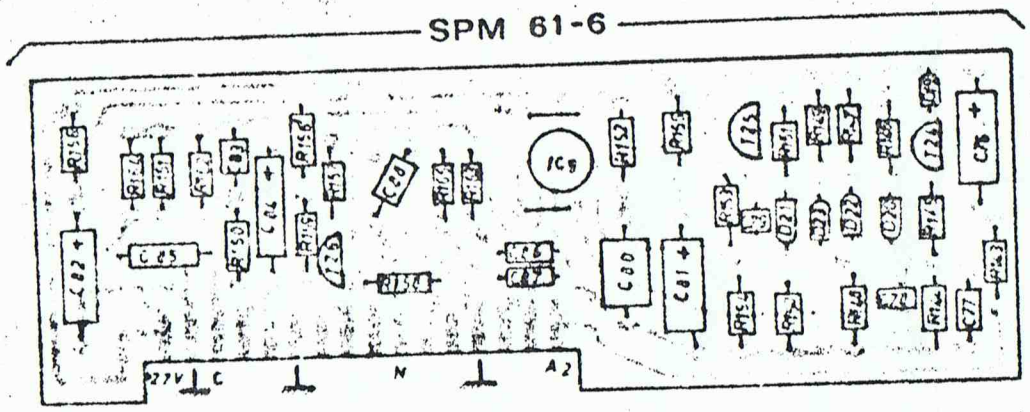


	Model ELKA RHAPSODY 490	Object: Assembly of Printed Circuit M000419 M000420 - M000422	Sheet N 7-0
			Date 3-9-74

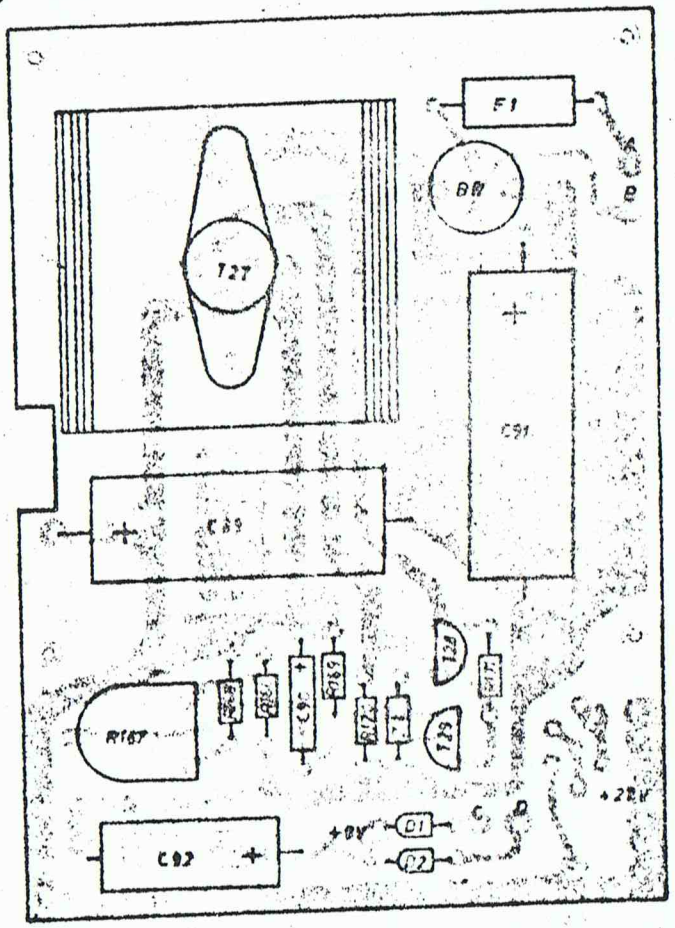
SPM 61-8



SPM 61-6



SPM 61-13



	Model	Object:	Sheet N 8-8
	ELKA RHAPSODY 490	Assembly of Printed Circuit SPM 61-6 SPM 61-8 SPM 61-13	Date 3-9-74